



utility meter tamper seal

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Tamper deterrent seal providing

indication of tampering for watthour meters

US Pat. 4416478 - Filed Nov 10, 1980 - General Electric Co.

In this patent, a breakable seal is inserted hour **meter** in accordance with the ... overcomes the aforementioned 65 conventional **utility meter** installation ...

Tamper-resistant fastener for utility meters

US Pat. 4225165 - Filed Jun 19, 1979

The tamper-resistant device defined in claim 1 wherein the **utility meter** has a ... a **seal** ring inserted through said slots, said **seal** ring including a **seal** ...

A-base utility meter cover

US Pat. 6316932 - Filed May 7, 1999 - General Electric Company

As a further **tamper** proofing measure, a loaded wire or plastic "meter" ...**seal** may be attached 30 to either of locking tabs 62 and 64, for example by ...

Tamper deterrent wire seal

US Pat. 5871243 - Filed Jan 16, 1997 - American Casting & Manufacturing Corp.

TAMPER DETERRENT WIRE SEAL BACKGROUND OF THE INVENTION The present invention ...

One way of stealing services is by tampering with a **utility meter** which is ...

Telephone dial-inbound data acquisition system with demand reading capability

US Pat. 5239575 - Filed Jul 9, 1991 - Schlumberger Industries, Inc.

This conductive loop, for example, may run through a closure **seal** of RDU 7 or ... **tamper** detecting loop, **tamper** with RDU 7 or its associated **utility meter**, ...

Pilfer proofing system and method for electric utility meter box

US Pat. 4404521 - Filed Aug 18, 1980

In the past, those electric **utility** customers who have a proclivity to pilfer electricity have found it very easy to **tamper** with the safety **seal** (making it ...

Security system and method for revenue class electricity meter

US Pat. 6000034 - Filed May 6, 1997 - Power Measurement Ltd.

To complete an installation of this type of **meter**, a **utility** metering technician affixed a metal or plastic **seal** so that the metal ring could not be removed ...

Tamper deterrent assembly

US Pat. 4883295 - Filed Oct 9, 1987

Moreover, since this **tamper** deterrent **seal** of the Canney patent is a **seal** between housing components of the **meter** box, and not 15 a **seal** disposed over the ...

Utility meter transmitter assembly for subsurface installations

US Pat. 5877703 - Filed Aug 12, 1997 - Badger Meter, Inc.

An assembly for communication of **utility meter** signals between a **utility meter** and a ... and wherein the outer enclosure has a **seal** and wherein the inner ...

Tamper-proof fastener

US Pat. 4422679 - Filed Mar 25, 1982 - Boston Edison Company

1 illustrates a side view of a **utility meter** and the **tamper-proof** device. ... to **utility meters** is the key; that is, the **seal**- 25 a head 18 containing a ...

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utility meter tamper seal enclosure

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Utility meter transmitter assembly for subsurface installations

US Pat. 5877703 - Filed Aug 12, 1997 - Badger Meter, Inc.

An assembly for communication of utility meter signals between a utility meter and a ... and wherein the outer enclosure has a seal and wherein the inner ...

TAMPER PROOF WATTHOUR METER ENCLOSURE

US Pat. 3928788 - Filed Jun 7, 1972

Therefore, it is particularly to a watthour meter enclosure having an im- is ... with the present invention a tamperable seal provided by the utility company. ...

Tamper deterrent seal providing indication of tampering for watthour meters

US Pat. 4416478 - Filed Nov 10, 1980 - General Electric Co.

In this patent, a breakable seal is inserted hour meter in accordance with the ... overcomes the aforementioned 65 conventional utility meter installation ...

Tamper-proof sealing ring for watthour meters

US Pat. 4149741 - Filed Dec 22, 1977 - Westinghouse Electric Corp.

2 and 3. extends inside or behind a meter mounting box enclosure so that ...
1 there is shown an electric utility meter formed ring is disclosed in US Pat. ...

Utility meter assembly and method of use

US Pat. 5741969 - Filed Jan 14, 1997 - Brooklyn Union

Description of the Related Art T enclosure. Utility meters are used by ... showing the meter fully package having a tamper-resistant seal. enclosed ...

Tamper deterrent assembly

US Pat. 4883295 - Filed Oct 9, 1987

Moreover, since this tamper deterrent seal of the Canney patent is a seal between housing components of the meter box, and not 15 a seal disposed over the ...

Telephone dial-inbound data acquisition system with demand reading capability

US Pat. 5239575 - Filed Jul 9, 1991 - Schlumberger Industries, Inc.

This conductive loop, for example, may run through a closure seal of RDU 7 or a meter 20 register associated with registers 11, 13, or 15. If the enclosure ...

Pilfer proofing system and method for electric utility meter box

US Pat. 4404521 - Filed Aug 18, 1980

In the past, those electric utility customers who have a proclivity to pilfer electricity have found it very easy to tamper with the safety seal (making it ...

Tamper deterrent assembly

US Pat. 4699408 - Filed Sep 6, 1985

Moreover, since this **tamper** deterrent seal of the Canney patent is a **seal** between housing components of the **meter** box, and not a **seal** disposed over the ...

Pilfer proofing system and method for electric **utility meter** box

US Pat. 4615113 - Filed Jan 24, 1985

Moreover, instead of drilling tures 34 and 35 align and a safety **seal** (not ...) drilling of holes in the **meter** stops themselves, **meter** and **tamper** with same ...



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utility meter configuration tamper

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Meter monitoring and tamper protection system and method

US Pat. 6801865 - Filed Mar 21, 2002 - Engage Networks, Inc.

However, if a **utility** employee must be sent to each **meter** in order to implement the changes to the **meter's configuration** parameters, the **utility** cannot ...

A-base utility meter cover

US Pat. 6316932 - Filed May 7, 1999 - General Electric Company

In the assembled **configuration**, base cover 12 and terminal cover 14 cooperate to ... As a further **tamper** proofing measure, a loaded wire or plastic "**meter**" ...

Electric meter tamper detection circuit for sensing electric meter removal

US Pat. 6118269 - Filed Apr 15, 1997 - Comverge Technologies, Inc.

The present invention also relates to a modular **meter** based **utility** gateway ... **configuration**. A first resistor is electrically connected to the line-side ...

Tamper-proof fastener

US Pat. 4422679 - Filed Mar 25, 1982 - Boston Edison Company

1 illustrates a side view of a **utility meter** and the **tamper-proof** device. ... metal annulus having a U-shaped **configuration** on its inner surface which ...

Method of detecting tamper of an electric meter

US Pat. 6362745 - Filed May 11, 2000 - Comverge Technologies, Inc.

BACKGROUND OF THE INVENTION Utility meters are used for billing services ... To achieve these objects, an electric **meter** tamper detection-system for sensing ...

Tamper-resistant fastener for utility meters

US Pat. 4225165 - Filed Jun 19, 1979

35 vide a **tamper-resistant** feature to a standard **utility** The presently disclosed fastener is mounted in the **meter** screw ring which does not require key ...

Portable remote meter reading apparatus

US Pat. 4652855 - Filed Dec 5, 1984 - Westinghouse Electric Corp.

First, the female receptacle 82 could be provided with a **tamper-proof** covering. ... the **utility** pole to per- practical **configuration** is illustrated in FIG. ...

Magnetic tamper detector

US Pat. 4707679 - Filed Feb 2, 1987 - Westinghouse Electric Corp.

When an electric **utility** wishes to examine the opera- command intended for another purpose but incorrectly interpreted as a field **configuration** terminal ...

Anti-tamper fastener shielding apparatus

US Pat. 4732517 - Filed Dec 9, 1985 - Carolina Moldings, Inc.
Preferably, for this purpose, the collar device is T^A anti-tamper apparatus 22
... gas utility meter, although as will be appreciated, the configuration to ...

Security system and method for revenue class electricity meter

US Pat. 6000034 - Filed May 6, 1997 - Power Measurement Ltd.
To complete an installation of this type of meter, a utility metering technician
affixed ... of programmable meter configuration or revenue register values. ...

Remote data acquisition and communication system

US Pat. 5448230 - Filed Jun 25, 1993 - Metscan, Incorporated
The utility meter or other device should pro- interval. ... for usage and one
for xhe transmitter is typically a crystal controlled tran- tamper or alarm. ...

Modular meter configuration and methodology

US Pat. 6885185 - Filed Nov 29, 1999 - Itron Electricity Metering, Inc.
In accor- initiator circuit attachable to a utility meter without breaking dance
with ... to be rendered tamper proof or ences on such area include US Pat. ...

Telephone dial-inbound data acquisition system with demand reading capability

US Pat. 5239575 - Filed Jul 9, 1991 - Schlumberger Industries, Inc.
This makes the tamper detecting scheme of the present invention less likely ...
load survey functions, accumulate pulses from a pulser type utility meter, ...

System for utility meter communications using a single RF frequency

US Pat. 5914673 - Filed May 6, 1996 - Schlumberger
An approach which has been taken in fixed network automatic meter reading ...
data and any stored tamper signals. expense on the part of the utility, ...

System for utility meter communications using a single RF frequency

US Pat. 5896097 - Filed Mar 6, 1996 - Schlumberger Resource Management Services, Inc.
As will be automatic meter reading ("AMIR") and for Remote Meter which can ...
data and any stored tamper signals. expense on me part of the utility, ...

Wireless area network communications module for utility meters

US Pat. 6650249 - Filed Jul 13, 2001 - Elster Electricity, LLC
Whenever communications are lost with the meter 30 due to a line power outage or
tamper, the module waits a programmable, predetermined length of time, ...

Remote automatic meter reading apparatus

US Pat. 5590179 - Filed Mar 8, 1995 - Ekstrom Industries, Inc.
The wing nuts 109 have apertures for receiving a conventional seal wire to provide
tamper indication. A 50 strain relief 105 is mounted in a snap-in fit in ...

Mapping interface for a distributed server to translate between dissimilar ...

US Pat. 6199068 - Filed May 21, 1998 - ABB Power T&D Company Inc.
The exemplary hardware configuration assumes an initial deployment configuration
with a design scope of about 10000-meter points. ...

Remote data acquisition and processing system

US Pat. 6208266 - Filed Apr 28, 1997 - Scientific Telemetry Corporation
Each utility meter), and therefore, the optical device housing 802 ... 24-25.

device **tamper**/removal sensor 352. Preferably, controller 2s As shown in FIGS. ...

Lockable terminal cover for bottom connected metering devices

US Pat. 4823572 - Filed Sep 2, 1986

One 15 ing to break the seal or remove the terminal block common **meter configuration**, called a bottom con- cover. Such tampering can be less noticeable than ...



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Electric meter tamper detection circuit for sensing electric meter removal

US Pat. 6118269 - Filed Apr 15, 1997 - Comverge Technologies, Inc.

The power meter collar 201 couples 35 a power meter (not shown) of a residence ... gateway enclosure according to the present invention, tamper- resistant ...

Modular meter based utility gateway enclosure

US Pat. 5898387 - Filed Mar 26, 1997 - Scientific-Atlanta, Inc.

A tamper detection mecha- utility gateway enclosure. ... A media access controller for scheduling and coor- to the power meter, the voltage drop across the ...

Method of detecting tamper of an electric meter

US Pat. 6362745 - Filed May 11, 2000 - Comverge Technologies, Inc.

The power meter collar 201 couples a power meter (not shown) of a residence or ... gateway enclosure according to the present invention, tamper- resistant ...

TAMPER-PROOF ELECTRIC POWER DISTRIBUTION AND METER ENCLOSURE SYSTEM

US Pat. 3753047 - Filed Aug 20, 1971

In the preferred embodi- enclosure is secured to a cast aluminum base plate ...

In most ^t the meter is mounted within the box and the operative portions ...

Watt-hour meter with fiber optics tamper detector

US Pat. 4571691 - Filed Feb 16, 1983 - Westinghouse Electric Corp.

Field of the Invention This invention relates to a tamper-resistant enclosure for a watt-hour meter, and, more particularly, to such an enclosure having a ...

TAMPER PROOF WATTHOUR METER ENCLOSURE

US Pat. 3928788 - Filed Jun 7, 1972

It is relatively 45 proof watthour meter enclosure includes an improved simple, therefore, to remove the meter unit for tamper- locking clip arrangement at ...

Utility meter and submetering system

US Pat. 4804957 - Filed Sep 17, 1986 - Triad Communications, Inc.

Upon primary power failure, the bat- Protective enclosure removed to reveal the ... meter socket. board of the invention; The enclosure includes a tamper ...

TAMPER-PROOF TIME INTERVAL RECORDING SYSTEM

US Pat. 3855851 - Filed Oct 26, 1971

A tamper-proof recording device as set forth in claim 7 wherein said elapsed-time meter is electrically powered, said enclosure including an electric power ...

Tamperproof external test contact arrangement for watthour meters

US Pat. 3943413 - Filed Jul 3, 1974 - Westinghouse Electric Corporation
For normal **meter** operation, the In accordance with the present invention, a **tamper-** disconnect or potential link is positioned to externally proof watthour ...

Tamper detection

US Pat. 6515574 - Filed Jan 27, 1999 - Neopost Limited
The postage **meter** includes connected to be powered by the cell 13 and ... voltage to power the **tamper** evidence circuit. As the accounting circuits in a ...

Temporary power center for construction site

US Pat. 5418683 - Filed Feb 7, 1994 - General Electric Company
BACKGROUND OF THE INVENTION 5 BF THE^REFERRED Power centers in the form of an exterior enclosure ... , x- i_ • ... containing an electric power meter ...

Meter removal indicator

US Pat. 4588949 - Filed Sep 16, 1983 - Sangamo Weston, Inc.
5 shows another embodiment utilizing the prin- **Tamper** indicating ... 25 displayed in electricity **meter** can simply be the **power** being applied window 16. ...

Testing operation of electric energy **meter** optics system

US Pat. 5268633 - Filed Feb 27, 1992 - General Electric Company
The **tamper** 43 positioned within the enclosure 45 of register assem- error ... respectively, **power meter** 2 is shown in simplified form, and includes 35 which ...

Meter for measuring volumetric consumption of a commodity

US Pat. 5659300 - Filed Sep 10, 1996 - Innovatec Corporation
The antenna A common type of gas **meter** has a mechanical coupling is coupled to the transmitter and when the **meter** is extending from the gas **meter** enclosure. ...

Wireless area network communications module for utility meters

US Pat. 6650249 - Filed Jul 13, 2001 - Elster Electricity, LLC
The **meter** 30 also preferably transmits a notification when **power** is restored to the **meter** 30. The **tamper** and damage alarms are preferably approximately ...

Wide area remote telemetry

US Pat. 6124806 - Filed Sep 11, 1998 - Williams Wireless, Inc.
Front cover 534 is attached to the termination enclosure main body 522 through the use of cover bolts 536 which are also sealed by tamper resistant screw ...

Advanced instrument packaging for electronic energy **meter**

US Pat. 6476595 - Filed Jan 26, 2000 - ABB Automation Inc.
In order to access the internal **power** jack 32, a **meter** reader pierces, ... Anti-tamper seal screws 22 can be provided, for example, if required by the ...

Electric enclosure locking assembly

US Pat. 4326395 - Filed Sep 4, 1979
The cover has a peripheral or connections and particularly, to a **tamper** ... of the **meter** pan, and an adjustable **power** consumption **meter** with a **meter** pan or ...

Multiple utility pedestal

US Pat. 4133021 - Filed Jul 25, 1977
Each utility company such as the gas company, electric **power** company, ...

Another protective **meter enclosure** is shown in Fisher, US Pat. No. ...

Lockable meter retention ring

US Pat. 4331012 - Filed Feb 19, 1980

As the cost of electricity Provide a lockable **meter** retention ring of compact and escalates, more people are tempted to **tamper** with ...

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Electric meter tamper detection circuit for sensing electric meter removal

US Pat. 6118269 - Filed Apr 15, 1997 - Comverge Technologies, Inc.

The **power meter** collar 201 couples 35 a **power meter** (not shown) of a residence ... gateway enclosure according to the present invention, **tamper-** resistant ...

Method of detecting tamper of an electric meter

US Pat. 6362745 - Filed May 11, 2000 - Comverge Technologies, Inc.

The **power meter** collar 201 couples a **power meter** (not shown) of a residence or ... gateway enclosure according to the present invention, **tamper-** resistant ...

Utility meter and submetering system

US Pat. 4804957 - Filed Sep 17, 1986 - Triad Communications, Inc.

Upon primary **power** failure, the bat- Protective **enclosure** removed to reveal the ... **meter** socket. board of the invention; The **enclosure** includes a **tamper** ...

Tamper detection

US Pat. 6515574 - Filed Jan 27, 1999 - Neopost Limited

The postage **meter** includes connected to be powered by the cell 13 and includes ... the **indication** state after removal of **power**. The maintain an accurate ...

Testing operation of electric energy meter optics system

US Pat. 5268633 - Filed Feb 27, 1992 - General Electric Company

The tamper 43 positioned within the **enclosure** 45 of register assem- error ... respectively, **power meter** 2 is shown in simplified form, and includes 35 which ...

Utility meter reading system

US Pat. 5719564 - Filed May 10, 1996

A typical example of a data accumulator unit 18 is identification, utility usage, and an **indication** of **tamper** in a rugged, heavy gauge **enclosure** 72 suitable ...

Tamper deterrent seal providing indication of tampering for watthour meters

US Pat. 4416478 - Filed Nov 10, 1980 - General Electric Co.

Once ment adapted to secure the **meter** and the **meter** box the **meter**, ... designed **enclosure** or box having a breakable **meter** box; Another prior art US Pat. No. ...

Meter removal indicator

US Pat. 4588949 - Filed Sep 16, 1983 - Sangamo Weston, Inc.

5 shows another embodiment utilizing the prin- **Tamper** indicating ... 25 displayed in electricity **meter** can simply be the **power** being applied window 16. ...

Telephone dial-inbound data acquisition system with demand reading capability

US Pat. 5239575 - Filed Jul 9, 1991 - Schlumberger Industries, Inc.
If the **enclosure** for RDU 7 is opened or a register associated with utility meters 11, 13, or 15 is removed, the conductive loop L1, L2 will be broken. **Tamper** ...

Testing operation of electric energy **meter** optics system

US Pat. 5113130 - Filed Apr 22, 1991 - General Electric Company
The **tamper** error signal is stored in the electronic register but is not made ...
1 and 2, an electric energy or **power meter** 2 is shown in simplified form, ...

Watthour **meter** open potential circuit detecting device

US Pat. 5017877 - Filed Nov 1, 1989
An absence of a deflection of nient **indication** to the **meter** reader employed by the the indicator could be due to an improper positioning or **power** company to ...

PUSHBUTTON TAMPER PROOF TAXI-METER

US Pat. 3809312 - Filed May 23, 1973
Because shutter flaps 61 and 62 are within the **enclosure** defined by cover ...
the **meter** control circuit to the vehicle's battery or some other **power** source. ...

Pilfer proofing system and method for electric utility **meter** box

US Pat. 4404521 - Filed Aug 18, 1980
Meter box 10 is provided with a cover 16, the upper 15 edge 16U of cover 16 ...
for the tampering) and easily gain access to the **meter** and **tamper** with same ...

Pilfer proofing system and method for electric utility **meter** box

US Pat. 4615113 - Filed Jan 24, 1985
The moving the **meter** box from the line that is, while the lower portion of body member 51 drapes over the lower **meter** box is energized and there is **power** on ...

Engine running time indicator

US Pat. 3965669 - Filed Feb 18, 1975 - Eaton Corporation
A need has been felt for a the generator, to high-**power** pulses of low duty ...
and providing this rela- The present invention is a **tamper-resistant** and ...

Pilfer proofing system for electric utility **meter** box

US Pat. 4505530 - Filed Aug 25, 1983
The contact jaws are diameter box is energized and there is **power** on the ...
for the tampering) and easily gain access to the **meter** and **tamper** with same in ...

Method and apparatus for performing automated fraud reporting

US Pat. 6523013 - Filed Jul 24, 1998 - Neopost, Inc.
A **power** on of the **meter** when the **meter** is not installed on a base (for a ...
Similarly, if a dedicated **tamper** detection device is triggered, the **meter**, ...

Electric energy service apparatus with **tamper** detection

US Pat. 6844825 - Filed Sep 25, 2001 - Ekstrom Industries, Inc.
The base 40 is snap-in connectable in the **meter** socket 30. ... such as in an enclosure separate from a standard watthour **meter** and the **meter** socket. ...

Apparatus and method to intermittently manufacture and dispense nitrogen gas ...

US Pat. 5688306 - Filed May 8, 1996
A flow **meter** 46 ^y be for essentially separating nitrogen from other air ...

air in the apparatus and/or the module may be made tamper proof as described in ...

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Electric meter tamper detection circuit for sensing electric meter removal

US Pat. 6118269 - Filed Apr 15, 1997 - Comverge Technologies, Inc.

The **power meter** collar 201 couples 35 a **power meter** (not shown) of a residence or

... A specific embodiment of this type of tamper protection circuitry is ...

Method of detecting tamper of an electric meter

US Pat. 6362745 - Filed May 11, 2000 - Comverge Technologies, Inc.

The **power meter** collar 201 couples a **power meter** (not shown) of a residence or

... A specific embodiment of this type of tamper protection circuitry is ...

TAMPER-PROOF ELECTRIC POWER DISTRIBUTION AND METER ENCLOSURE SYSTEM

US Pat. 3753047 - Filed Aug 20, 1971

In the preferred embodiment enclosure is secured to a cast aluminum base plate hav-

Affixed to the upper ... **protection**. conjunction with the accompanying ...

TAMPER PROOF WATTHOUR METER ENCLOSURE

US Pat. 3928788 - Filed Jun 7, 1972

It is relatively 45 proof watthour **meter enclosure** includes an improved simple, therefore, to remove the **meter** unit for tamper- locking clip arrangement at ...

Utility meter and submetering system

US Pat. 4804957 - Filed Sep 17, 1986 - Triad Communications, Inc.

Upon primary power failure, the bat- Protective **enclosure** removed to reveal the... **meter** socket. board of the invention; The **enclosure** includes a tamper ...

Expansion module for modular meter

US Pat. 6275168 - Filed Jan 8, 1999 - Siemens Power Transmission and Distribution, LLC

For example, a **meter** **enclosure** may be designed to allow visual inspection of the**meter** ... It is noted that such a tamper protection configuration does not, ...

Nonvolatile memory protection arrangement for electronic postage meter ...

US Pat. 4805109 - Filed Oct 16, 1985 - Pitney Bowes Inc.

The term postage **meter** also includes other like devices which provide unit value... mechanism are physically sealed within a tamper resistant **enclosure**. ...

Thermal protection apparatus for a secure electronic appliance, in ...

US Pat. 5659454 - Filed Nov 30, 1994 - Neopost Industrie

To enable the **meter** to operate again, it A SECURE ELECTRONIC APPLIANCE, ... able tamper-proof sealing. using commercially-available electronic components, ...

Lockable meter retention ring

US Pat. 4331012 - Filed Feb 19, 1980

Therefore, the prior art de- ring, and more particularly to a **meter** retention ring ... **meter** bases. inadequate **protection** against theft of electric power

A-base revenue meter with power quality features

US Pat. 6493644 - Filed Aug 9, 1999 - Power Measurement Ltd.

The switchboard **enclosure** 505 usually features a cover 525 20 with a ... and that other methods of **tamper** detection and environmental **protection** are well ...

Electronic postage meter system having arrangement for rapid storage of ...

US Pat. 4845632 - Filed Oct 16, 1985 - Pitney Bowes Inc.

The accounting circuits and associated postage printing mechanism are physically sealed within a **tamper** resistant **enclosure**. The non-volatile memories are ...

Electronic postage meter operating system

US Pat. 4817004 - Filed Oct 16, 1985 - Pitney Bowes Inc.

22, 1984, for NONVOLATILE MEMORY SYSTEM WITH REAL TIME AND POWER DOWN DATA STORAGE CAPABILITY FOR AN ELECTRONIC POSTAGE METER, where dual nonvolatile ...

Revenue meter with power quality features

US Pat. 6615147 - Filed Aug 9, 1999 - Power Measurement Ltd.

The switchboard **enclosure** 505 usually features a cover 525 with a ... methods of **tamper** detection and environmental **protection** are well known in the art. ...

Wide area remote telemetry

US Pat. 6124806 - Filed Sep 11, 1998 - Williams Wireless, Inc.

For gas meters, a sensor interface module 102 will monitor rotation of the dials of the **meter** display. The small **enclosure** or casing 210 of the sensor ...

Video gaming system with pool prize structures

US Pat. 4652998 - Filed Jan 4, 1984 - Bally Manufacturing Corporation

3) through conventional input **protection** circuitry 146 to a standard RS232 ... is enclosed in its own **tamper** resistant **enclosure** with sensors 163 attached ...

Wide area remote telemetry

US Pat. 6366217 - Filed Aug 16, 1999 - Internet Telemetry Corp.

For gas meters, a sensor interface module 102 will monitor rotation of the dials of the **meter** display. The small **enclosure** or casing 210 of the sensor ...

Illusion of skill game machine for a gaming system

US Pat. 4582324 - Filed Jan 4, 1984 - Bally Manufacturing Corporation

3) through conventional input **protection** circuitry 146 to a standard RS232 ... is enclosed in its own **tamper** resistant **enclosure** with sensors 163 attached ...

Postage metering system

US Pat. 6424954 - Filed Feb 16, 1999 - Neopost Inc.

A postage **meter** allows a user to print postage or other indicia of value on ... The **tamper** evident **enclosure** houses the processor and other security ...

Apparatus for purification of water-based fluids in closed-loop flow systems

US Pat. 5543040 - Filed Dec 12, 1994 - FI-Tek Purification Systems, Inc.

Power Input: Output to Electrodes: Indicators: Voltage Metering: Current Metering

Enclosure Electronic Function Summary 120/240 vac 50/60 Hz lamp max at 120 ...

Battery assembly

US Pat. 6111519 - Filed Feb 25, 1999 - Badger Meter, Inc.

45 assemblies, provided that power requirements for the tran- Inside the inner enclosure 40 in FIG. 2 is a transponder printed circuit board (PCB) 90 in ...



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Utility meter and submetering system

US Pat. 4804957 - Filed Sep 17, 1986 - Triad Communications, Inc.

The individual **utility meter**- communication means is coupled to the processor for ... meter socket. board of the invention; The **enclosure** includes a **tamper** ...

Electric meter tamper detection circuit for sensing electric meter removal

US Pat. 6118269 - Filed Apr 15, 1997 - Comverge Technologies, Inc.

In general, the master should check DOUT for a slave busy **indication** before ...
The modular **meter-based utility gateway enclosure** according to the present ...

Method of detecting tamper of an electric meter

US Pat. 6362745 - Filed May 11, 2000 - Comverge Technologies, Inc.

In general, the master should check DOUT for a slave busy **indication** before ...
The modular **meter-based utility gateway enclosure** according to the present ...

Tamper deterrent seal providing indication of tampering for watthour meters

US Pat. 4416478 - Filed Nov 10, 1980 - General Electric Co.

1, which illustrates a The present invention overcomes the aforementioned 65 conventional **utility meter** installation shown generally necessity and expense ...

Telephone dial-inbound data acquisition system with demand reading capability

US Pat. 5239575 - Filed Jul 9, 1991 - Schlumberger Industries, Inc.

If the **enclosure** for RDU 7 is opened or a register associated with **utility meters** 11,13, or 15 is removed, the conductive loop L1, L2 will be broken. Tamper ...

Utility meter reading system

US Pat. 5719564 - Filed May 10, 1996

A typical example of a data accumulator unit 18 is identification, **utility usage**, and an **indication of tamper** in a rugged, heavy gauge **enclosure** 72 suitable ...

Utility meter assembly and method of use

US Pat. 5741969 - Filed Jan 14, 1997 - Brooklyn Union

Description of the Related Art T **enclosure. Utility meters** are used by ... showing the **meter** fully package having a **tamper-resistant seal**. enclosed ...

Tamper deterrent assembly

US Pat. 4883295 - Filed Oct 9, 1987

For example, **utility meters** are normally readable without access to the interior ... that the **meter box** be specifically constructed for use with the **tamper** ...

Pilfer proofing system and method for electric utility meter box

US Pat. 4404521 - Filed Aug 18, 1980

In the past, those electric utility customers who have a proclivity to pilfer electricity have found it very easy to tamper with the safety seal (making it ...

Tamper deterrent assembly

US Pat. 4699408 - Filed Sep 6, 1985

Although various other forms of protection for utility meters, ... a tamper deterrent seal providing an indication of tampering for watt hour meters is ...

Pilfer proofing system and method for electric utility meter box

US Pat. 4615113 - Filed Jan 24, 1985

Es- rior of-the unit and is the load side of the meter, and sentially all ... drilling of holes in the meter stops themselves, meter and tamper with same in ...

Pilfer proofing system for electric utility meter box

US Pat. 4505530 - Filed Aug 25, 1983

Moreover, instead of drilling a proclivity to pilfer electricity have found it very easy holes in the meter stop 26, 27 flanges, the end of the to tamper ...

Sensing switch for a magnetically coupled communications port

US Pat. 4491792 - Filed Dec 13, 1982 - General Electric Company

25 conductive material, is mounted in the first coupler tier is normally done by a utility company meter reader Phoned substantially flush with the face ...

Tamperproof water meter

US Pat. 4663970 - Filed Sep 3 1985 - Rockwell International Corporation

2U -? f... sure for completely enclosing the meter the enclosure

take all the measures 3B-3f of FIG. 3 being sealed shut and being of a type

Watthour meter open potential circuit detecting device

Wattnaut Meter Open potential
U.S. Pat. 5017877 - Filed Nov. 1, 1888

An absence of a deflection of meter **indication** to the meter reader ... power company to reveal the **meter defect or tamper-** orientation of the device and not

utility meter enclosure tamper indication

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